

Name: _____ TP: _____

Watch the following video: <http://tinyurl.com/GEOMCP50> ***START AT 5:55***

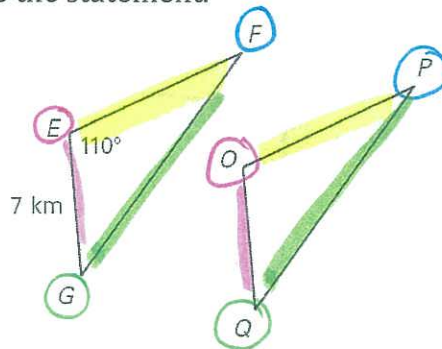
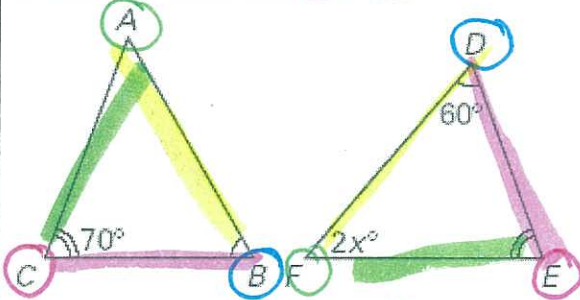
1) What does ASA stand for?

2) Draw an example of two triangles that are congruent by ASA using appropriate indicators (tick marks).

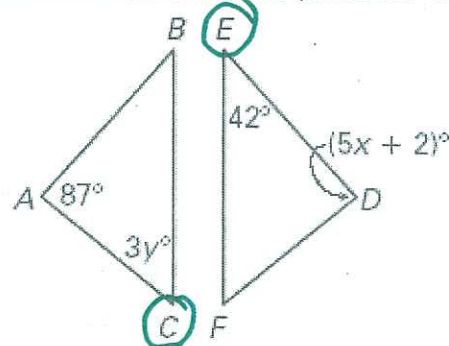
WEEK REVIEW:

1) In the diagram, $\triangle EFG \cong \triangle OPQ$. Complete the statement.

1. $\overline{EF} \cong$ _____
2. $\angle P \cong$ _____
3. $\angle G \cong$ _____
4. $m\angle O =$ _____
5. $QO =$ _____
6. $\triangle GFE \cong$ _____

2. Find the value of x . $\overline{CB} \cong \overline{ED}$ 

*match up angle ~~marks~~ marks!
 * Highlight the final 2 corresponding sides.

3. Given $\triangle ABC \cong \triangle DEF$, find the value of x and y .

① COLOR CODE.
 ② Write equation: $\angle D = \angle A$, &
 solve for x .

③ set up equation to solve for y .

⑥ $f(x) = x^2 - 4$

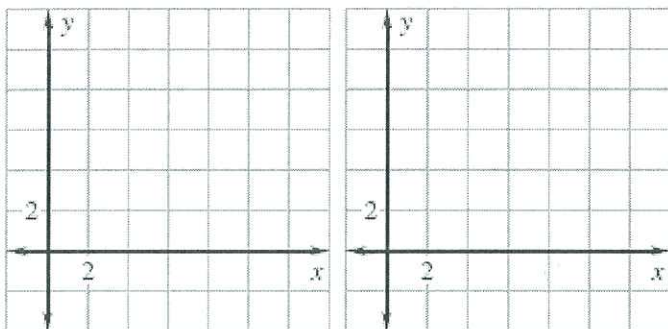
x	f(x)	(x, f(x))
-10	$f(-10) = (-10)^2 - 4 = 96$	$(-10, 96)$
-9	$f(-9) = (-9)^2 - 4 = 77$	$(-9, 77)$
-8		
-7		
-6		
-5		
-4		
-3		
-2		
-1		
0		
1		
2		
3		
4		
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7		
8		
9		

GRAPH! ↓

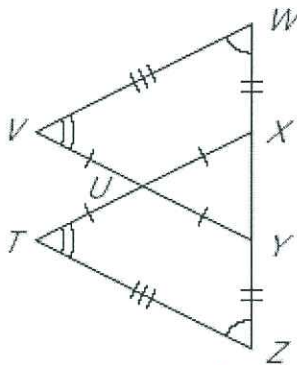
You do not need to use ALL ordered pairs.

Describe the shape! ↓

4. Graph the triangle with vertices A(2, 2), B(4, 6), and C(8, -4). Then graph a triangle congruent to $\triangle ABC$ with different coordinates. (hint: if you move up 2, over 1 for point A, you must do the same for both B and C)



5. Write a congruence statement for the following figure



① color code

② $\triangle \text{---} \cong \triangle \text{---}$

by --- (what postulate?)

You should approach each problem as an exploration. Problem-solving requires persistence as much as it requires ingenuity. When you get stuck, or solve a problem incorrectly, back up and start over. Keep in mind that you're probably not the only one who is stuck, and that may even include your teacher. **If you have taken the time to think about a problem, you should bring to class a written record of your efforts, not just a blank space in your notebook.** The methods that you use to solve a problem, the corrections that you make in your approach, the means by which you test the validity of your solutions, and your ability to communicate ideas are just as important as getting the correct answer.

Solve all of the problems in your **graph paper notebook neatly labeled!** If you are stuck and cannot answer a question, write at least three complete sentences about the problem and what you do know. Use at least one of the sentence starters below:

- Even though I am stuck, I do know...and I think I should...because...
- I am stuck because I do not know what --- means. I think it means...so I tried...
- I got this answer but I think it is wrong because...

Remember that you can always use old notes, a dictionary, math textbook, and/or look up topics online!

6. Construct a table for x from -10 to 10 and their corresponding y values for the following function:

*** ON BACK OF FRONT PAGE.**

$$f(x) = x^2 - 4$$

Once constructed, graph the coordinates of the function and describe the shape you see.

7. Now factor $f(x) = x^2 - 4$ into two binomials. If you set the two binomials equal to zero what do you notice about the solutions and the graph of the function in number 1?

USE ATTACHED GRAPH PAPER.

STAY READY.

